

Title (en)  
METAL-CONTAINING POLYMERIC MATERIALS

Title (de)  
METALLHALTIGE POLYMERE MATERIALIEN

Title (fr)  
MATÉRIAUX POLYMÈRES CONTENANT DES MÉTAUX

Publication  
**EP 3298050 A1 20180328 (EN)**

Application  
**EP 16726443 A 20160505**

Priority  
• US 201562164295 P 20150520  
• US 201662298089 P 20160222  
• US 2016030974 W 20160505

Abstract (en)  
[origin: WO2016186858A1] Metal-containing polymeric materials and metal complex-containing polymeric materials are provided. The polymeric materials are divinylbenzene/maleic anhydride polymers, partially hydrolyzed divinylbenzene/maleic anhydride polymers, or fully hydrolyzed divinylbenzene/maleic anhydride polymers. Additionally, methods of making the metal-containing polymeric materials, methods of using the metal-containing polymeric materials to capture volatile, basic, nitrogen-containing compounds, and methods of using a zinc-containing polymeric material to detect the presence of water vapor are provided.

IPC 8 full level  
**C08F 212/36** (2006.01); **C08F 8/42** (2006.01); **C08F 222/06** (2006.01); **C08K 3/10** (2018.01); **C08L 35/06** (2006.01)

CPC (source: EP KR US)  
**B01J 20/223** (2013.01 - EP US); **B01J 20/264** (2013.01 - EP US); **B01J 20/265** (2013.01 - EP US); **C08F 8/42** (2013.01 - EP KR US); **C08F 212/08** (2013.01 - KR); **C08F 212/36** (2013.01 - EP KR US); **C08F 222/08** (2013.01 - EP KR US); **C08K 3/16** (2013.01 - EP KR US); **C08K 3/28** (2013.01 - EP KR US); **C08K 3/30** (2013.01 - EP KR US); **C08K 5/09** (2013.01 - EP KR US); **C08K 5/1535** (2013.01 - US); **C08K 5/16** (2013.01 - EP US); **C08K 5/17** (2013.01 - EP KR US); **C08K 5/22** (2013.01 - KR US); **C08K 5/34** (2013.01 - EP KR US); **C08K 2003/166** (2013.01 - EP US); **C08K 2003/168** (2013.01 - EP US); **C08K 2003/3045** (2013.01 - EP US)

C-Set (source: EP US)

EP  
1. **C08F 8/42 + C08F 212/36**  
2. **C08F 212/36 + C08F 222/06 + C08F 212/08**  
3. **C08F 212/36 + C08F 222/08 + C08F 212/08**  
4. **C08F 222/08 + C08F 212/36 + C08F 212/08**  
5. **C08K 3/16 + C08L 35/06**  
6. **C08K 5/16 + C08L 35/06**  
7. **C08K 5/17 + C08L 35/06**  
8. **C08K 5/22 + C08L 35/06**  
9. **C08K 5/34 + C08L 35/06**  
10. **C08K 3/28 + C08L 35/06**  
11. **C08K 3/30 + C08L 35/06**  
12. **C08K 5/09 + C08L 35/06**  
US  
1. **C08F 8/42 + C08F 212/36**  
2. **C08K 3/28 + C08L 35/06**  
3. **C08K 3/30 + C08L 35/06**  
4. **C08K 5/09 + C08L 35/06**  
5. **C08K 3/16 + C08L 35/06**  
6. **C08K 5/16 + C08L 35/06**  
7. **C08K 5/17 + C08L 35/06**  
8. **C08F 212/36 + C08F 222/06 + C08F 212/08**  
9. **C08K 5/22 + C08L 35/06**  
10. **C08F 212/36 + C08F 222/08 + C08F 212/08**  
11. **C08K 5/34 + C08L 35/06**  
12. **C08F 222/08 + C08F 212/36 + C08F 212/08**

Citation (search report)  
See references of WO 2016186858A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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**WO 2016186858 A1 20161124**; CN 107636068 A 20180126; CN 107636068 B 20210423; EP 3298050 A1 20180328; EP 3298050 B1 20201230; JP 2018517024 A 20180628; JP 6837010 B2 20210303; JP 6837010 B6 20210331; KR 102569614 B1 20230823; KR 20180008760 A 20180124; US 10400050 B2 20190903; US 2018105628 A1 20180419

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**US 2016030974 W 20160505**; CN 201680027527 A 20160505; EP 16726443 A 20160505; JP 2017560137 A 20160505; KR 20177036468 A 20160505; US 201615570935 A 20160505